## WHAT IS CLAIMED IS:

1	<ol> <li>A method for controlling ID information stored in a storage</li> </ol>
2	medium in conjunction with a terminal for reading information from the storage medium
3	and used to catalog information for the storage medium into the control apparatus
4	wherein:
5	in an operation to catalog information to be cataloged for the
6	storage medium into the control apparatus, the terminal receives the information to be
7	cataloged, reads the ID information from the storage medium and transmits the
8	information to be cataloged and the ID information to the control apparatus; and
9	the control apparatus catalogs the information to be cataloged and
10	the ID information therein by associating the information to be cataloged with the ID
11	information, and
12	in an operation to examine information already cataloged in the
13	control apparatus for the storage medium, the terminal reads the ID information from the
14	storage medium and transmits the ID information to the control apparatus;
15	the control apparatus transmits the information already cataloged
16	therein and associated with the ID information to the terminal; and
17	the terminal receives the already cataloged information from the
18	control apparatus.
1	2. A method of cataloging information for a storage medium into a
2	control apparatus according to claim 1 wherein:
3	the storage medium is used for storing authentication information
4	for authenticating the ID information along with the ID information in advance, wherein
5	the ID information can be authenticated by using a key owned by the control apparatus;
6	in an operation to catalog information to be cataloged for the
7	storage medium into the control apparatus, the terminal receives the information to be
8	cataloged, reads the ID information and the authentication information from the storage
9	medium and transmits the information to be cataloged, the authentication information and
10	the ID information to the control apparatus; and
11	the control apparatus authenticates the ID information on the basis
12	of the authentication information by using the key and catalogs the information to be

13	cataloged and the ID information therein by associating the information to be cataloged
14	with the ID information provided that a result of authentication indicates that the ID
15	information is valid, and
16	in an operation to examine information already cataloged in the
17	control apparatus for the storage medium, the terminal reads the ID information and the
18	authentication information from the storage medium and transmits the ID information and
19	the authentication information to the control apparatus;
20	the control apparatus authenticates the ID information on the basis
21	of the authentication information by using the key and transmits information already
22	cataloged therein and associated with the ID information to the terminal provided that a
23	result of authentication indicates that the ID information is valid; and
24	the terminal receives the already cataloged information from the
25	control apparatus.
1	3. A method of cataloging information for a storage medium into a
2	control apparatus according to claim 1 wherein:
3	the storage medium is used for storing attribute information along
4	with the ID information in advance;
5	the control apparatus controls pieces of ID information of a
6	plurality of the storage mediums and pieces of information each cataloged for one of the
7	storage mediums by associating the pieces of ID information and the pieces of cataloged
8	information with pieces of attribute information stored in the storage mediums;
9	the terminal controls some of the pieces of ID information and
	some of the pieces of cataloged information controlled by the control apparatus and
10 11	associated with at least one of the pieces of attribute information; and
12	in an operation to examine information already cataloged in the
13	•
14	control apparatus for a particular one of the storage mediums, the terminal reads ID
	information and attribute information from the storage medium, checking whether the ID
15	information read from the particular storage medium and associated with the attribute
16	information also read from the particular storage medium is one of the pieces of ID
17	information controlled by itself, and
18	if the ID information read from the particular storage medium and
19	associated with the attribute information also read from the particular storage medium is

20	not one of the pieces of ID information controlled by itself, the terminal executes the
21	steps of:
22	acquiring ID information and cataloged information associated
23	with the attribute information read from the particular storage medium from the control
24	apparatus;
25	using the ID information and the cataloged information acquired
26	from the control apparatus to update the pieces of ID information and the pieces of
27	cataloged information controlled by itself; and
28	searching the pieces of ID information controlled by itself for a
29	piece matching with the ID information read from the particular storage medium; and
30	acquiring one of the pieces of cataloged information controlled by
31	itself and associated with the piece of ID information matching with the ID information
32	read from the particular storage medium, but
33	if the ID information read from the particular storage medium and
34	associated with the attribute information also read from the particular storage medium is
35	one of the pieces of ID information controlled by itself, on the other hand, the terminal
36	executes the steps of:
37	searching the pieces of ID information controlled by itself for a
38	piece matching with the ID information read from the particular storage medium; and
39	acquiring one of the pieces of cataloged information controlled by
40	itself and associated with the piece of ID information matching with the ID information
41	read from the particular storage medium.
1	A
1	4. A method of cataloging information for a storage medium into a
2	control apparatus according to claim 1 whereby:
3	the control apparatus controls ID information of the storage
4	medium and information cataloged for the storage medium by associating the ID
5	information and the cataloged information with user ID information,
6	in an operation to catalog user ID information into the control
7	apparatus, the terminal receives the user ID information, reads the ID information from
8	the storage medium and transmits the user ID information and the ID information to the
9	control apparatus; and
.10	the control apparatus catalogs the user ID information and the ID
11	information therein by associating the user ID information with the ID information, and

12	in an operation to examine user ID information already cataloged
13	in the control apparatus for the storage medium, the terminal reads the ID information
14	from the storage medium and transmits the ID information to the control apparatus; and
15	the control apparatus transmits the user ID information already
16	cataloged therein and associated with the ID information to the terminal.
1	5. A method of cataloging information for a storage medium into a
2	control apparatus according to claim 1 wherein the terminal displays the already
3	cataloged information.
1	6. A control system comprising:
2	a terminal capable of making an access to a storage medium used
3	for storing ID information; and
4	a control apparatus for controlling the ID information of the storage
5	medium, and wherein;
6	the control apparatus comprises:
7	a database used for cataloging ID information of the storage
8	medium and information to be cataloged for the storage medium with the ID information
9	associated with the information cataloged for the storage medium; and
10	a search means for searching the database for cataloged
11	information associated with ID information received from the terminal and transmitting
12	the cataloged information to the terminal, and wherein
13	the terminal comprises:
14	a reading means for reading ID information from the storage
15	medium and transmitting the ID information to the control apparatus; and
16	an acquirement means for acquiring cataloged information
17	transmitted from the control apparatus.
1	7. A control system comprising:
2	a terminal capable of making an access to one of a plurality of
3	storage mediums used for storing ID information and attribute information; and
4	a control apparatus for controlling pieces of ID information of a
5	plurality of the storage mediums, wherein;

7	the control apparatus comprises:
8	a database used for cataloging pieces of ID information, pieces of
9	attribute information of the storage mediums and pieces of information each cataloged for
10	one of the storage mediums by associating the pieces of ID information and the pieces of
11	attribute information with the pieces of cataloged information;
12	a searcher for searching the database for a particular one of the
13	pieces of cataloged information and a particular one of the pieces of ID information
14	associated with attribute information received from the terminal and transmitting the
15	particular piece of cataloged information and the particular piece of ID information to the
16	terminal, and
17	the terminal comprises:
18	a temporary database used for cataloging some of the pieces of ID
19	information and some of the pieces of cataloged information cataloged in the database of
20	the control apparatus and associated with at least one of the pieces of attribute
21	information;
22	a reader for reading ID information and attribute information from
23	the storage medium associated with the terminal;
24	an acquirer for searching the temporary database for one of the
25	pieces of ID information and one of the pieces of cataloged information matching with
26	the attribute information read by the reader; and
27	a transmitter to transmit the attribute information read by the reader
28	to the control apparatus to acquire ID information and catalogue information for the
29	attribute information to be used for updating the contents of the temporary database in
30	case the acquirer does not find one of the pieces of ID information and one of the pieces
31	of cataloged information matching with the attribute information in the temporary
32	database.
1	8. A control system according to claim 6 wherein:
2	the terminal further comprises a receiver which receives
3	information to be cataloged for the storage medium, and the reader reads ID information
4	from the storage medium and transmits the information to be cataloged and the ID
.5	information to the control apparatus upon receiving information to be cataloged by the
6	receiver; and

7		the control apparatus further comprises a cataloging/updating
8	apparatus to catalogue	the information to be cataloged and the ID information received
9	from the terminal in the	ne database.
1	9.	A control system according to claim 8 wherein the storage medium
2	comprises:	
3		a chip for storing ID information in advance, the chip mounted on a
4	sheet; and	
5		an antenna device mounted on the sheet and used to provide power
6	by using an electroma	gnetic signal received.
1	10.	A control system according to claim 6 wherein the terminal further
2		display cataloged information acquired by the acquirer.
_		and the state of t
1	11.	A control apparatus employed in a control system used for
2	controlling ID inform	ation stored in a storage medium and provided with a terminal
3	capable of making an	access to the storage medium, the control apparatus comprising:
4	+	a database used for cataloging ID information of the storage
5	medium read from the	e storage medium and transmitted to the control apparatus and
6	information to be cata	loged for the storage medium with the ID information associated
7	with the information	cataloged for the storage medium; and
8	•	a searcher for searching the database for cataloged information
9	associated with ID in	formation received from the terminal and transmitting the cataloged
10	information to the ter	minal.
1	12.	A control apparatus according to claim 11 wherein:
2		the database is also used for cataloging attribute information in
3	addition to ID inform	ation of the storage medium read by the terminal from the storage
4 .	medium and transmit	ted to the control apparatus and information to be cataloged for the
5	storage medium with	the attribute information and the ID information associated with the
6	information cataloge	I for the storage medium; and
7	_	a searcher searches the database for ID information and cataloged
8	information associate	d with attribute information received from the terminal and
9	transmits the ID info	mation and the cataloged information to the terminal.

1	13. A terminal employed in a control system also employing a control
2	apparatus for controlling ID information stored in storage mediums and provided with
3	capability of making an access to one of the storage mediums associated with the
4	terminal, the terminal comprising:
5	a temporary database used for cataloging some pieces of ID
6	information of the storage mediums cataloged in a database of the control apparatus and
7	some of pieces of information also cataloged in the database of the control apparatus for
8	the storage mediums and associated with at least one of pieces of attribute information
9	also cataloged in the database;
10	a reader to read ID information and attribute information from the
11	storage medium associated with the terminal;
12	an acquirer to search the database for one of the pieces of ID
13	information and one of the pieces of cataloged information matching with the attribute
14	information read by the reading means; and
15	a transmitter to transmit the attribute information read by the reader
16	to control apparatus to acquire ID information and cataloged information for the attribute
17	information for updating the contents of the temporary database when the acquiring
18	means does not find one of the pieces of ID information and one of the pieces of
19	cataloged information matching with the attribute information in the temporary database.
1	14. A terminal system according to claim 13 wherein the terminal
2	further comprises a display to display cataloged information acquired by the acquirer.
_	included comprised a display to display cardingsed information acquired by the acquired
1	15. A control apparatus according to claim 11 wherein the apparatus
2	further comprises a cataloger for cataloging information to be cataloged and ID
3	information received from the terminal in the database by associating the cataloged
4	information with the ID information.
1	16. A program storage medium for storing a program to be loaded for
2	execution into a control apparatus for controlling ID information of a storage medium
3	stored in a storage medium in conjunction with a terminal for reading information from
4	the storage medium in order for the terminal to catalog information for the storage
5	medium into the control apparatus wherein the program is executed so that;

6	in an operation to catalog information to be cataloged for the
7	storage medium into the control apparatus, the terminal receives the information to be
8	cataloged, reads the ID information from the storage medium and transmits the
9	information to be cataloged and the ID information to the control apparatus; and
10	the control apparatus catalogs the information to be cataloged and
11	the ID information therein by associating the information to be cataloged with the ID
12	information, whereas
13	in an operation to examine information already cataloged in the
14	control apparatus for the storage medium,
15	the terminal reads the !D information from the storage medium and
16	transmits the ID information to the control apparatus;
17	the control apparatus transmits the information already cataloged
18	therein and associated with the ID information to the terminal; and
19	the terminal receives the already cataloged information from the
20	control apparatus.
1	17. A control system for controlling information catalogued for a
2	storage medium used for storing ID information, the control system comprising:
3	a control apparatus for controlling ID information of the storage
4	medium; and
5	a terminal for reading information from the storage medium,
6	wherein:
7	the terminal comprises:
8	a reader to read ID information from the storage medium;
9	a transmitter to transmit the ID information and information
10	received by the terminal to be cataloged to the control apparatus; and
11	an acquirer to acquire cataloged information associated with the ID
12	information from the control apparatus, wherein the control apparatus comprises:
13	a cataloguer to cataloging the information to be cataloged and the
14	ID information received from the terminal by associating the information with the ID
15	information; and
16	a transmitter to transmit the cataloged information to the terminal.
17	

1	18. A control system according to claim 17 wherein:
2	the storage medium stores authentication information for
3	authenticating the ID information along with the ID information, wherein the ID
4	information can be authenticated by using a key owned by the control apparatus;
5	the terminal includes a reader to read ID information and
6	authentication information from the storage medium and a transmitter to transmit the ID
7	information and the authentication information, along with information received by the
8	terminal to be cataloged to the control apparatus, and
9	the control apparatus includes an authentication device for
10	authenticating the ID information on the basis of the authentication information by using
11	the key;
12	a cataloging device for cataloging the information to be cataloged
13	and the ID information, by associating the information with the ID information for a
14	result of authentication indicating that the ID information is valid; and
15	a transmitter for transmitting the cataloged information associated
16	with the ID information to the terminal for a result of authentication indicating that the ID
17	information is valid.
1	19. A control system according to claim 17 wherein:
2	the storage medium includes a means for storing attribute
3	information along with ID information in advance;
4	the control apparatus includes a control means for controlling
5	pieces of ID information of a plurality of the storage mediums and pieces of information
.6	cataloged for the storage mediums by associating the pieces of ID information and the
7	pieces of cataloged information with pieces of attribute information stored in the storage
8	mediums, and
9	the terminal includes a terminal controller for controlling some of
10	the pieces of ID information and some of the pieces of cataloged information controlled
11	by the controller employed in the control apparatus and associated with at least one of the
12	pieces of attribute information;
13	a reader for reading ID information and attribute information from
14	one of the storage mediums associated with the terminal to examine information
15	cataloged for the storage medium:

16	an examination device to determine whether the ID information
17	read from the storage medium and associated with the attribute information also read
18	from the storage medium is one of the pieces of ID information controlled by the terminal
19	control device itself;
20	a transmitter for transmitting the attribute information read by the
21	reader to the control apparatus to acquire ID information and cataloged information for
22	the attribute information to be used for updating the pieces of ID information and the
23	pieces of cataloged information controlled by the terminal control device if the
24	examination device determines that the ID information read from the storage medium and
25	associated with the attribute information also read from the storage medium is not one of
26	the pieces of ID information controlled by the terminal controller; and
27	an acquirer for searching the pieces of ID information controlled by
28	the terminal control device for a particular one matching with the ID information read
29	from the storage medium and associated with the attribute information also read from the
30	storage medium and acquiring one of the pieces of cataloged information controlled by
31	the terminal control device and associated with the particular piece of ID information in
32	case the examination device determines that the ID information read from the storage
33	medium and associated with the attribute information also read from the storage medium
34	is one of the pieces of ID information controlled by the terminal control device.
1	20. A control system according to claim 17 wherein:
2	the control apparatus further comprises a control device for
3	controlling ID information and attribute information of the storage medium by associating
4	the ID information and the attribute information with user ID information which can be
5	set by the user of the storage medium;
. 6	the terminal further includes a reading means for reading ID
7	information from the storage medium;
8	a transmission device for transmitting the ID information and user
9	ID information received by the terminal to the control apparatus in an operation to catalog
10	the user ID information for the storage medium; and
11	a further transmission device for transmitting the ID information to
12	the control apparatus in. an operation to examine user ID information for the storage
13	medium, and

14	the control apparatus includes a cataloging device for cataloging
15	the user ID information by associating the user ID information with the ID information;
16	and
17	a transmission device for transmitting cataloged user ID
18	information associated with the ID information to the terminal.